LARIN, M.N., prof., doktor tekhn. nauk; MASLOV, A.A., kand. tekhn. nauk

Wear of a hard alloy and quenched steel, rubbing together. Izv. vys.
ucheb. zav.; mashinostr. no.9:107-114 '58. (MIRA 12:10)

1.Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(Machanical wear) (Metal cutting)

25(7)

PHASE I BOOK EXPLOITATION

PERSONAL PROPERTY AND PROPERTY.

sov/2969

是这个是是是一个人,我们就是一个人,我们就是一个人,我们就是一个人,他们就是一个人。 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut

Vysokoproizvoditel'nyye konstruktsii reztsov i ikh ratsional'naya ekspluatatsiya (High-productivity Single-point Tools and Their Efficient Use) Moscow, Mashgiz, 1959. 239 p. Errata slip inserted. 5,500 copies printed.

Ed.: M. N. Larin, Doctor of Technical Sciences, Professor; Tech. Ed.: A. F. Ovarova; Managing Ed. for Literature on Metalworking and Tool Making: R. D. Beyzel'man.

PURPOSE: This book is intended for engineers, technicians, technical-inspection personnel, and turners.

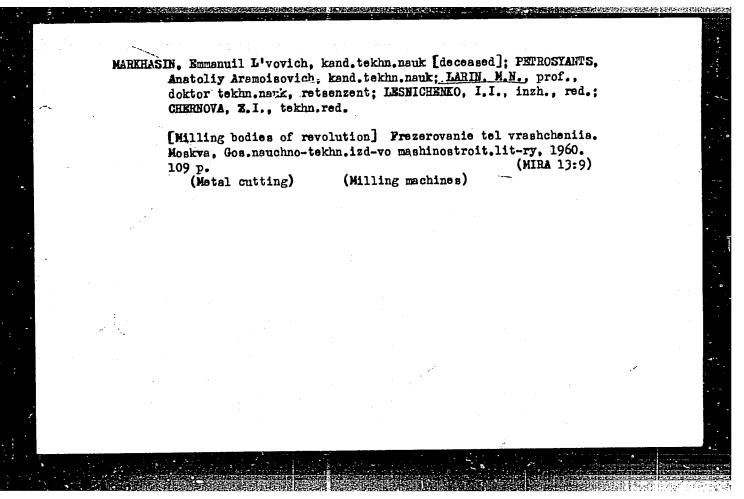
COVERAGE: This book deals with the efficient use of single-point cutting tools. Designs of single-point tools developed by industrial innovators and scientific research organizations, contemporary designing methods, and constructional analyses of

Card 1/6

LARIN, M.N., prof., doktor tekhn.nauk; MASLOV, A.A., kand.tekhn.nauk; KOGAN, A.B., assistent

Selecting the brand of hard alloys for machining highly hardened steels. Izv.vys.ucheb.zav.; mashinostr. no.1: 114-122 *59. (MIRA 13:3)

1. Tekhnologicheskiy institut pishchevoy promyshlennosti. (Metal cutting)



GORRISKAYA, Zinaida Dmitriyevna, inzh.; LARIN, M.N., doktor tekhn.nauk, retsenzent; FEL'BSHTNYN, E.I., doktor tekhn.nauk, red.; CHERHOVA, Z.I., tekhn.red.

[Broaching with large feed] Protiagivanie s bol'ahimi podachami. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.

(MIRA 13:9)

(Broaching machines)

LARIN, MIN

PHASE I BOOK EXPLOITATION

SOV/5059

- Moscow. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut
- Vysokoproizvoditel'nyye konstruktsii protyazhek i ikh ratsional'naya ekspluatatsiya (Highly Productive Broach Constructions and Their Efficient Operation) Moscow, Mashgiz, 1960. 119 p. Errata slip inserted. 4,800 copies printed.
- Ed. (Title page): M. N. Larin, Doctor of Technical Sciences, Professor; Tech. Ed.: G. Ye. Sorokina; Managing Ed. for Literature on Metalworking and Machine-Tool Making: V. I. Mitin, Engineer.
- PURPOSE: This book is intended for engineers and technicians concerned with the design and use of broaches.
- COVERAGE: The book deals with requirements for achieving high labor efficiency through the proper use of broaches. In this connection the following main topics are discussed: 1) modern designs of broaches for efficient methods of broaching; 2) selection of broaching regimes to ensure desired surface finish and accuracy

Card 1/8-

Highly Productive Broach Constructions (Cont.) SOV/5059

of broached part; 3) data on plant standards for wear and scrapping of broaches; and 4) data on reconditioning of broaches, etc. The sharpening and heat treatment of broaches, and the measurement of their geometric parameters are also discussed. The causes of abnormal functioning of broaches and measures for their correction are reviewed on the basis of experience gained by leading Soviet and non-Soviet factories. Problems in organizing the inspection of the broaching operation are also considered. The work on which this book is based was carried out in the laboratory for metal cutting of the Vsesoyuznyy nauchno-issledovatel'-skiy instrumental'nyy institut (VNII) (All-Union Instrument Scientific Research Institute) in cooperation with other institutions and advanced plants (NIITavtoprom [Technological Scientific Research Institute of the Automobile Industry], ChTZ [Chelyabinsk Tractor Plant], ZIL [Plant imeni Likhachev], and others). The chapters were written as follows: Chapters I and IV, by M. N. Larin, Professor, and M. P. Tsyganova, Engineer; Ch. II, by M. Yu. Lapinskiy, Engineer, and P. G. Katsev, Candidate of Technical Sciences; Ch. III, by L. K. Petrosyan,

Card 2/8-

Candidate of Technical Sciences, and L. G. Dibner, Engineer; and Ch. V, by A. D. Martynov, Candidate of Technical Sciences. There are 36 references, all Soviet. TABLE OF CONTENTS:			
Candidate of Technical Sciences, and L. G. Dibner, Engineer; and Ch. V, by A. D. Martynov, Candidate of Technical Sciences. There are 36 references, all Soviet. FABLE OF CONTENTS: Foreword Ch. I. Conditions for Highly Productive Broaching h. II. Broach Designs 1. Classification of broaches 2. Requirements for broaching machines 3. Basic methods of broaching a) On the problem of an efficient method of broaching b) Regular method of broaching c) Generating method of broaching c) Generating method of broaching d) Staggered-tooth (group) method of broaching 13 Staggered-tooth (group) method of broaching			
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Card 6/8		

LARIN, M.N., doktor tekhn.nauk, prof.; TSYGANOVA, M.P., inzh.; TAMBOVTSEV,
S.S., kand. tekhn. nauk; MITYAKOV, A.V., inzh.; PETROSYAN, L.K.,
kand. tekhn. nauk; CHERNOUSENKO, A.P., inzh.; BUDNIKOV, N.Ye.,
inzh.; MARTYNOV, A.D., kand. tekhn. nauk; IVANOVA, N.A., red. izd-va;
GORDEYEVA, L.P., tekhn. red.

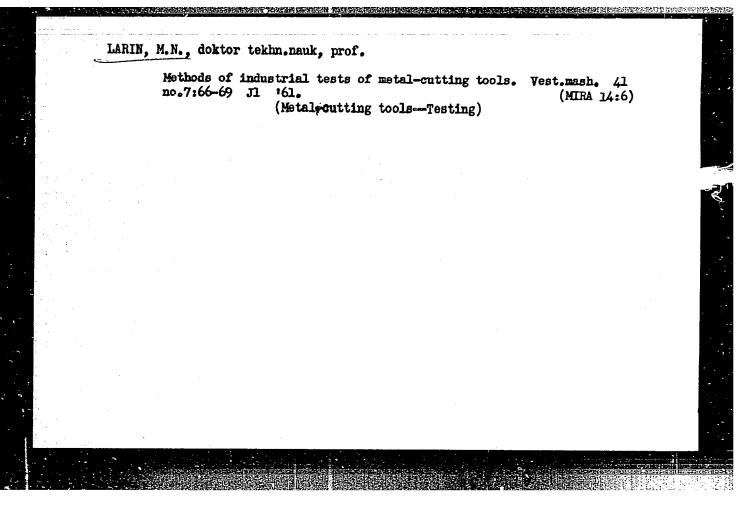
[High-production designs of form cutters and their efficient use] Vysokoproizvoditel'nye konstruktsii fasomykh frez i ikh ratsional'naia ekspluatatsiia. Pod red. M.N.Larina. Moskwa, Mashgiz, 1961. 174 p.

(MIRA 14:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut. 2. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut, Moscow (for all except Ivanova, Gordeyeva)

(Metal-cutting tools)

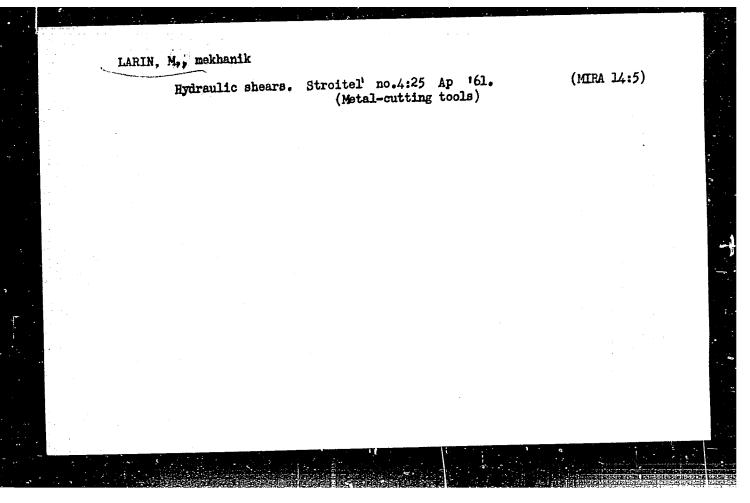


ZOREV, N.N., doktor tekhn. nauk, prof.; KREYMER, G.S., kand. tekhn. nauk; LARIN, M.N., doktor tekhn. muk, prof., retsenzent; LESNICHENKO, I.I., red. izd-va; GORDEYEVA, L.P., tekhn. red.

[High-speed machining of steel with hard-alloy cutting tools under intermittent cutting conditions] Vysokoproizvoditel'nsia obrabotka stali tverdosplavnymi reztsami pri preryvistom rezanii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. litry, 1961. 78 p.

(MIRA 14:5)

(Metal cutting)



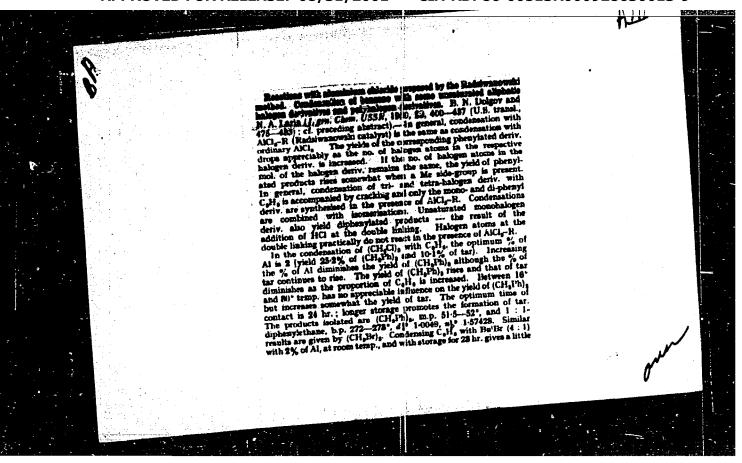
REZNIKOV, A.N., prof., doktor tekhn. nauk; LABIN, M.N., doktor tekhn. nauk, prof., retsenzent; FRID, L.I., red.izd-va; DEMKINA, N.F., tekhn. red.

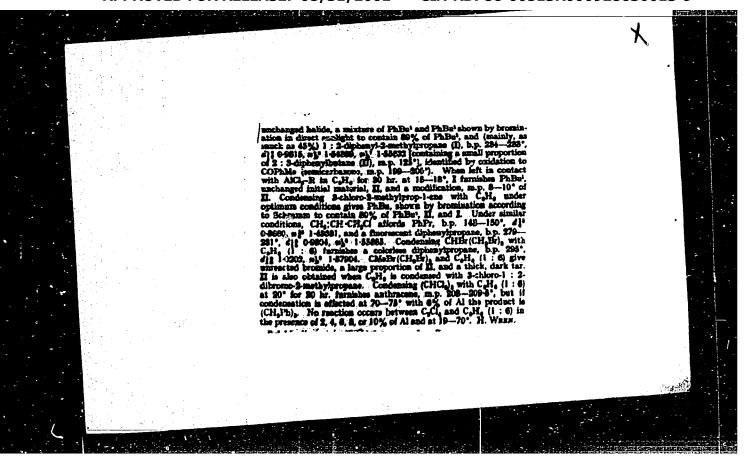
[Heat exchange in metal cutting and the cooling of cutting tools] Teploobmen pri rezanii i okhlazhdenie i instrumentov. Moskva, Mashgiz, 1963. 199 p. (MIRA 17:2)

ARKHIPOV, Vladimir Va. 'yevich, dots; KASENKOV, Mirhail
Aleksandrovich, dots., kand. tekhn. nauk; LARIN, Moisey
Nisonovich, prof., doktor tekhn. nauk; SOKOLOV, Nikolay
Vasil'yevich, prf.[deceased]; SHEVCHENKO, Gennadiy
Dmitriyevich, dots., kand. tekhn. nauk; SHUKHOV, Yuriy
Vladimirovich, dots., kand. tekhn. nauk; SHCHERBAKOV, G.S.,
red.

[Technology of metals] Tekhnologiia metallov. [By] V.V. Arkhipov i dr. Izd. 2., perer. Moskva, Vysshaia shkola, 1964. 563 p. (MIRA 17:10)

SOURCE CODE: UR/0122/66/000/000/ SOURCE CODE: UR/0122/66/000/000/ Norman Source Code: UR/0122/66/000/000/ SOURCE: Larin, M. N. (Doctor of technical sciences, Professor); Martynov, G. A. (Engineer) ORG: none TITLE: Methods of heating parts during machining SOURCE: Vestnik mashinostroyeniya, no. 8, 1966, 70-73 SOURCE: Vestnik mashinostroyeniya, no. 8, 1966, 70-73 TOFIC TAGS: metal machining, hot machining, radiation heating, induction heating metalworking MESTRAUR: Various methods of locally heating the cutting region of literature and metalworking are discussed qualitatively, with numerous references to Induction heating method (U.S., machining are discussed qualitatively, with numerous references to make in the method with the contact and heating method (U.S., patents. The major part of the report is devoted to the origin, range of applications and various advantages and disadvantages of electric contact and heating method (U.S., patents. Schown graphically), although an optical (radiation) heating (in //); geometries (shown graphically) although an optical (radiation) for cost required by patents. Schown graphically, although an optical (radiation) for cost required by patents. Schown graphically, although an optical (radiation) of the cost required by patents. Schown graphically, although an optical (radiation) for cost required by patents. Schown graphically, although an optical (radiation) of the cost required by patents. Schown graphically, although an optical (radiation) of the cost required by patents. Schown graphically, although an optical (radiation) of the cost required by patents. Schown graphically, although an optical (radiation) of the cost required by patents. Schown graphically, although an optical (radiation) of the cost required by patents. Schown graphically, although an optical (radiation) patents. Schown	"APPI	ROVED FOR RELEASE: 08			.3-9
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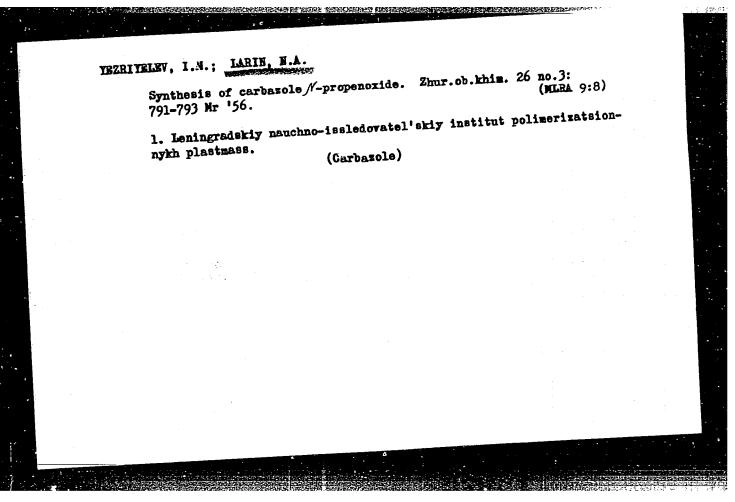


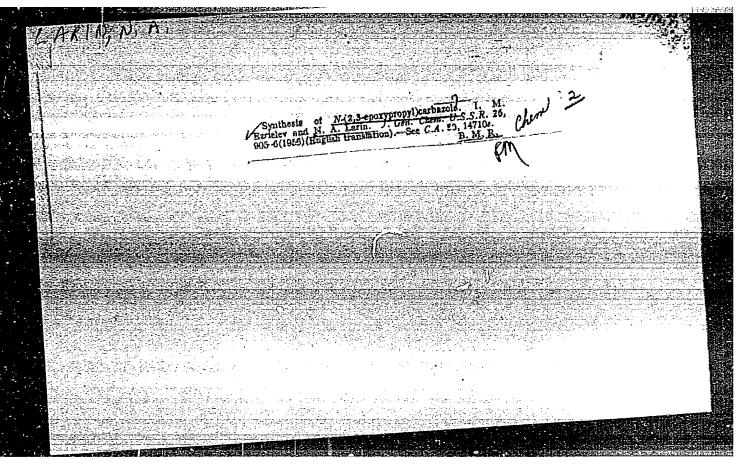
YEZRIYKLEV, I.M.; LARIH, B.A.; MEYMARK, O.M.; TOLSTIKOVA, Z.D.

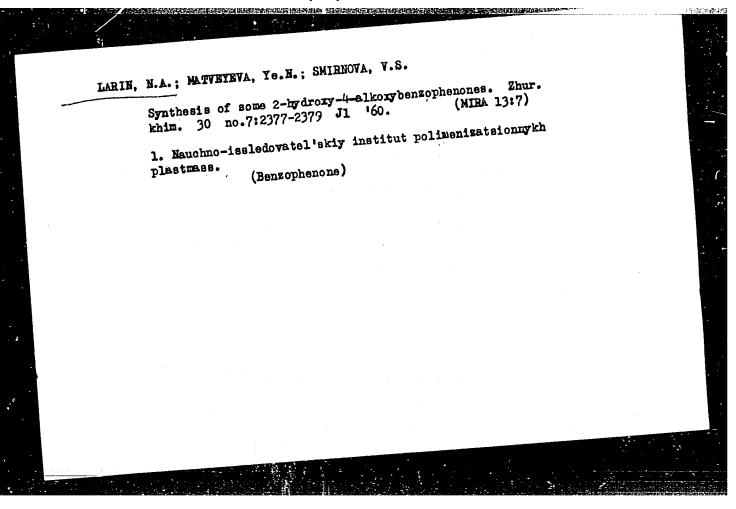
Synthesis of p-divinylbenzene. Zhur.ob.khim. 26 no.2:589-591
(MLRA 9:8)

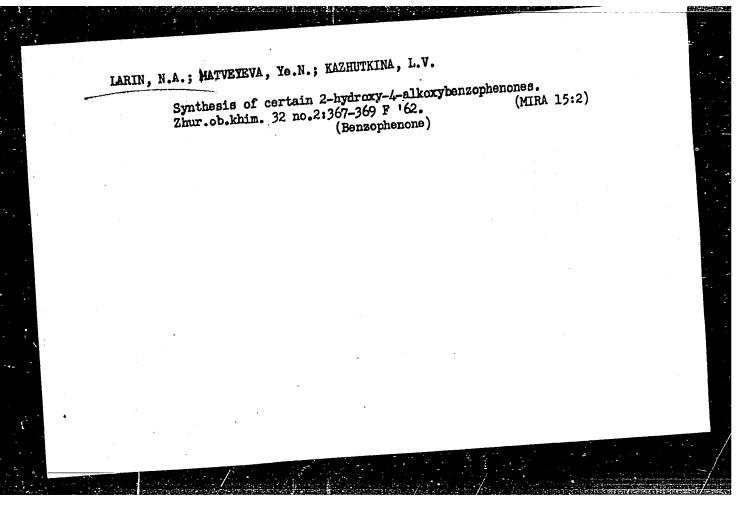
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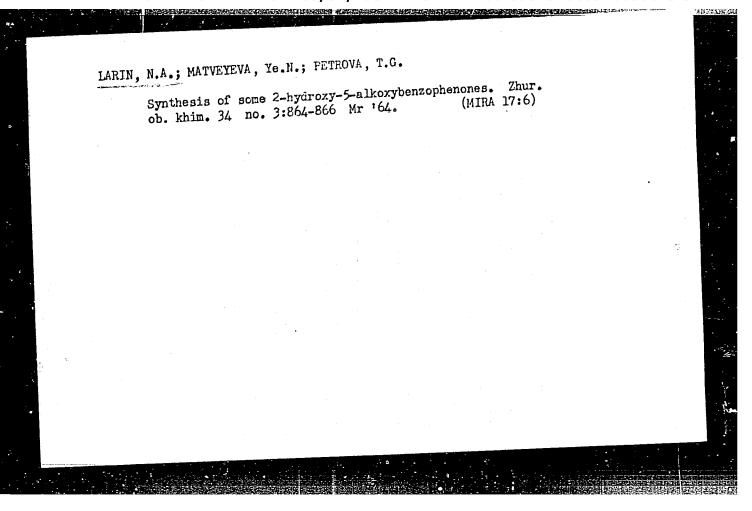
(Benzene)







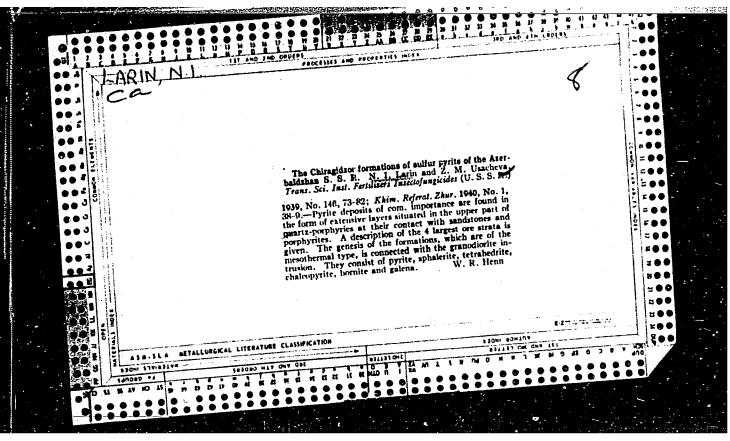




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-INVI	NTOR: Kirilova, E. I.; Glagoleva, Yu. A.; Iarin, N. A.; eyeva, Ye. N.; Lebedeva, Ye. Ya.; Smlrnova, V. S.	
222		
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196 TOF	o, 69 IC TAGS: polystyrene, light stabilization, photostabilization,	
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SOURCE CODE: UR/0081/66/000/009/H043/H043 IJP(c) L 06477-67 AR6028232 ACC NRI Larin, N. A.; Petrova, T. G. AUTHOR: TITIE: Synthesis of certain light stabilizers from the class of benzophenone trihydroxybutyrophenone derivatives 28 SCURCE: Ref. th. Khimiya, Part I, Abs. 9Zh169 REF SOURCE: Sb. Sinter i issled. effektivn. stabilizatorov dlya polimern. materialov. Voronezh, 1964, 206-211 TOPIC TAGS: light absorption, stabilizer additive, UV absorption, ketone ABSTRACT: In a search for light stabilizers for polymers (e. g., polyolefins), the Friedel-Crafts reaction was used to synthesize 2,4-(OH)2C6H3C(O)Ph (I), 2,5-(OH) 2,5-(OH)2C6H3C(O)Ph (II, 3,4-(OH)2C6H3C(O)Ph (III), 2,2,4,4,-tetrahydroxybenzophenone and also 3,4,5,2,4,- and 3,4,5,2,5,-pentahydroxybenzophenones, which, with the exception of II and III, proved to be good absorbers of UV light but mixed poorly with the polymers. Reaction of alkaline solutions of I and II with alkyl halides produced the corresponding 2-OH-4-OR-C6H3C(O)Ph [IV, where R are n-alkyls from C1 to C10, iso-Pro, iso-Buo, sec-Buo, CH2CH(Et)Bu, CH(Me)C6H13 and CH2CHCH2O] and 2-OH-5-ORC6H3C(0)Ph (R=Me, iso-Pr, Bu, C8H17]. In addition, 2-OH-4-MeC6H3C(0)Ph, 4-OH-2-MeC6H3C(0)Ph, 2-OH-5-RC6H3C(0)Ph (R=Rt, tert-Bu, iso-C8H1/), and also 2,3,4-MeC6H3C(0)Pr and 2,4,6-(OH)3C6H2C(0) Pr were obtained. The best stabilizers are Card 1/2

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ANIXEYEV, N.P.; BISKE, S.F.; VERESECHAGIN, V.N.; ZIMKIN, A.V.; LARIH, N.I.

Interdepartmental conference on the preparation of unified

stratigraphic plans of the northeastern part of the U.S.S.R.

(MIRA 11:6)

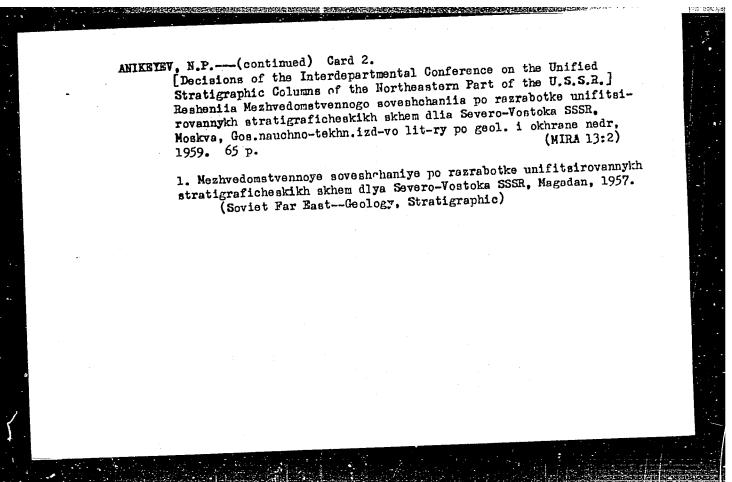
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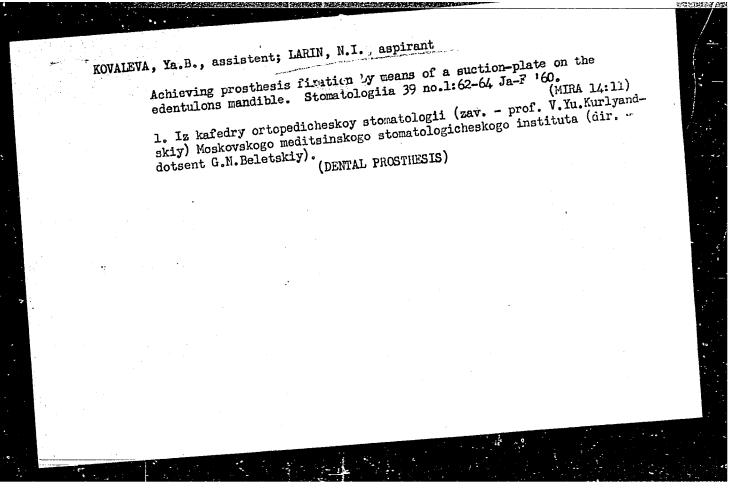
1.Severo-Vostochnoye geologicheskoye upravleniye Ministerstva

geologii i okhrany nedr SSSR i Veseoyuznyy nauchno-issledovatel'skiy
geologicheskiy institut.

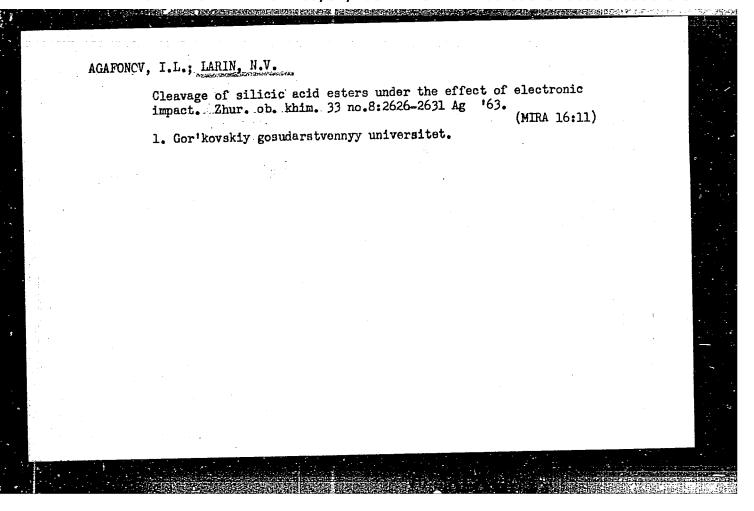
(Siberia, Eastern-Geology, Stratigraphic)

LARIN N.1ANIKEYEV, N.P., glavnyy red.; BISKE, S.F., red.; BOBYLEVSKIY, V.I., red.; VAS'KOVSKIY, A.P., red.; VERESHCHAGIN, V.N., red.; DRABKIN, I.Ye., red.; YEVARGULOV, B.B., red.; YEFIMOVA, A.F., red.; ZINKIH, A.V., red.; LARIN, N.I., red.; LIKHAREV, B.K., red.; MENNER, V.V., red.; MIKHAYLOV, A.F., red.; NIKOLAYEV, A.A., red.; POPOV, G.G., red.; POPOV, Yu.N., red.; SAKS, V.N., red.; SEMEYKIN, A.I., red.; SIMAKOV, A.S., red.; TITOV, V.A., red.; SHILO, N.A., red.; EL'YANOV, M.D., red.; YAKUSHEV, I.R., red.: V redaktirovanii prinimali uchastiye: ANDREYEVA, O.N., red.; BAYKOVSKAYA, T.N., red.; BOLKHOVITINA, N.A., red.; BORSUK, M.O., red.; VASIL'YEV, I.V., red.; VASILEVSKAYA, N.D., red.; VOYEVODOVA, Ye.M., red.; YEVSEYEV, K.P., red.; KIPARI-SOVA, L.D., red.; KRASNYY, L.I., rad.; KRISHTOFOVICH, L.V., red.; KULIKOV, M.V., red.; LIBROVICH, L.S., red.; MARKOV, F.G., red.; MODZALEVSKAYA, Ye.A., red.; NIKIFOROVA, O.I., red.; OBUT, A.M., red.; PCHELINTSEVA, G.T., red.; RZHONSNITSKAYA, M.A., red.; SEDOVA, M.A., red.; STEPAHOV, D.L., red.; TIMOFEYEV, B.V., red.; KHUDOLEY, K.M., red.; CHEMEKOV, Yu.F., red.; CHERNYSHEVA, N.Ye., red., DERZHAVINA, N.G., red.izd-va; GUROVA, O.A., tekhn.red. (Continued on next card)





L 13508-63 ACCESSION NR: AP3003468 8/0078/63/008/007/1555/1558 AUTHOR: Agafonov, I. L.; Devyaty*kh, G. G.; Larin, N. V. TIME: Mass-spectra of silicon tetrachloride SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 7, 1963, 1555-1558 TOPIC TAGS: mass-spectrum, silicon tetrachloride, 1305 mass-spectropeter ABSURACT: The authors wanted to get more complete mass-spectra of allicon tetrachloride inasmuch as this data is only partially described in existent literature. The mass-spectra were taken on a MI-1 305) mass-spectrometer. This apparatus is shown in a sketch. The mass-spectra which were obtained are given in a table. Data obtained by the authors differs greatly with data obtained by Sokolov, Andrianov and Akimov (Zh. obshch, khimii, 25, 1955, 675). Authors show that computed ratios among various isotropic variations of the ions are in close agreement with experimental data. The small deviations have a uniform character. In all of the experimental cases exemined, the ratio of the values, corresponding to the odd mass numbers, is larger and the ratio of the values, corresponding to the even mass numbers, to the values for odd masses is smaller. Orig. art. has: 3 tables and 1 figure. Cord 1/2/



LARIN, N. V.

The Second All-Union Conference on the Preparation and Analysis of High-Purity Elements, held on 24-28 December 1963 at Gorky State University. In. N. I. Lobachevskiy, was sponsored by the Institute of Chemistry of the Gorky State University, the Physicochemical and Technological Department for Inorganic Materials of the Academy of Sciences USSR, and the Gorky Section of the All-Union Chemical Society im. D. I. Mendeleyev. The opening address was made by Academician N. M. Zhavoronkov. Some 90 papers were presented, among them the following:

N. V. Larin, G. G. Devyatykh, and I. L. Agafonov — a spectrochemical—and A. D. Zorin and A. M. Amel'chenko—a chromatographic control method of Si purification by determination of extraneous volatile hydrides in monosilane.

(Zhur ANAL. Khim, 19, No.6, 1964 p.777-79)

LARIN, N.V.; DEVYATYKH, G.G.; AGAFONOV, I.L.

Mass spectra of phosphine and arsine. Zhur.neorg.khim. 9 no.1:205-207
Ja '64. (MIRA 17:2)

1. Gor'kovskiy gosudarstvennyy universitet imeni Lobachevskogo.

AGAFONCV, I.L.; DEVYATYKH, G.G.; FROLOV, I.A.; LARIN, N.V.

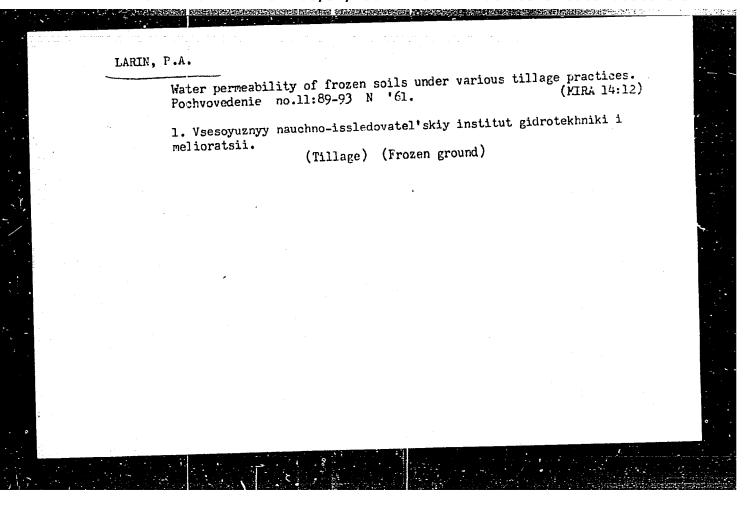
Mas spectrum of monogermane. Flur. fiz. khim. 36 no.621367-1368 Je 62 (MIRA 1727)

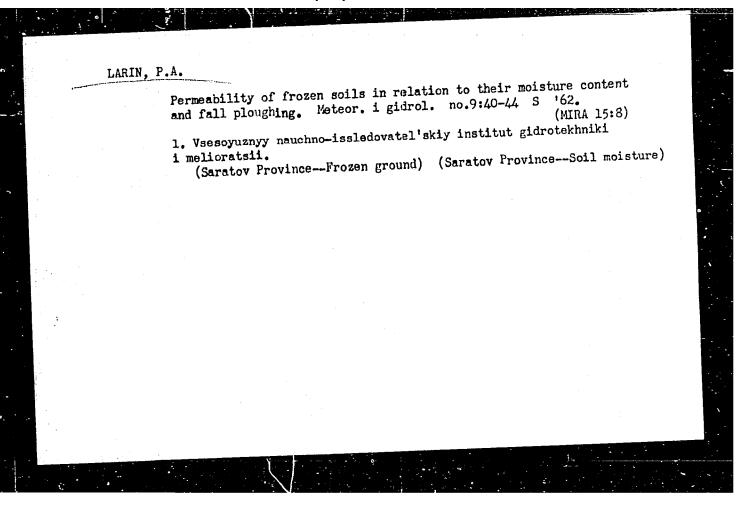
1. Gor'kovskiy universitet imeni Lobachevskogo.

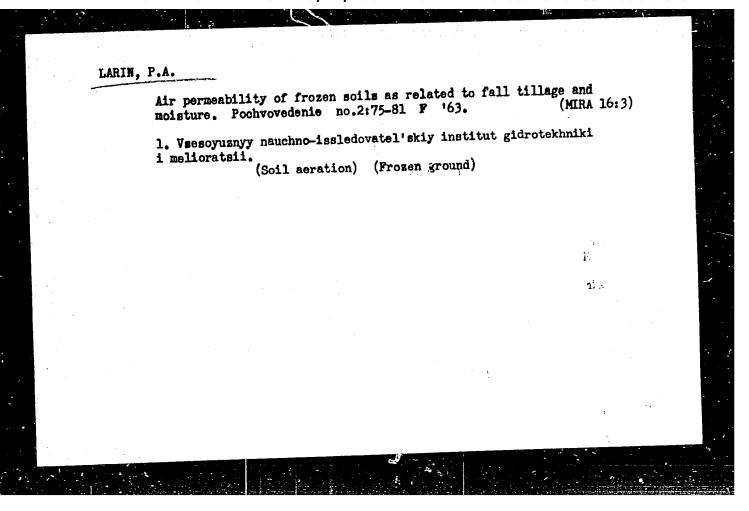
AVAKYAN, Arshaluys Aramovich, prof.; LARIN, Nikolay Vasil'yevich, zhurnalist; NIKOLAYEV, V.R., red.

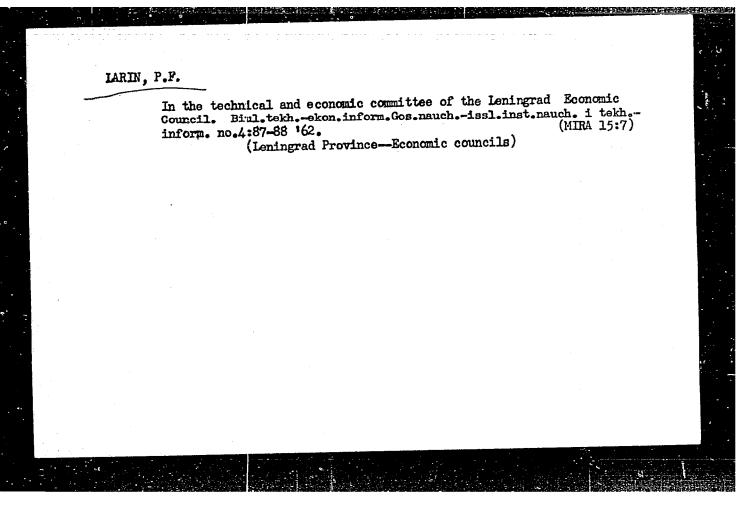
[In the depths of the microcosm] V glubiny mikromira. Moskva, Znanie, 1964. 31 p. (Novos v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.24)

(MIRA 17:11)









KRADRASHKOV, A.V., dots.; LARIN, P.I., inzh.; PEVNEV, A.K., aspirant; PLOTNIKOV, M.G., assistent; ROMAHOVSKIY, V.A., assistent; SKOGOHEV, V.P., inzh.

Precision attained in standardizing Invar tapes on interference and opticomechanical comparators of the Moscow Institute for Engineers in Geodesy, Aerial Photography, and Cartography. Trudy MIIGAIK no.36:63-66 '59. (MIRA 13:4)

1. Kafedra vysshey geodezii Moskovskogo instituta inzhenerov geodezii, aerofotos"yemki i kartografii.
(Measuring tapos--Standards)

Eff(1) Gi L 48303-65 S/0154/65/000/005/0037/0043 ACCESSION NR: AP5006668 AUTHOR: Larin, P. I. (Senior lecturer) TITIE: Scientific research studies in a comparator TVUZ. Geodeziya i aerofotos"yemka, no. 5, 1964, 37-43 TOPIC TAGS; comparator, inve wire, comparator longth variation, length standard ABSTRACT: The author reviews the following studies conducted in recent years at the Metrologicheskaya laboratoriya (Metrology Laboratory) of his Institute in an effort to improve the precision of calibration of invar wires: 1) an investigation of the causes of changes in the length of the Institute's comparator; 2) a determination of friction in the blocks of suspended mensuring devices of the comparator; and 3) a determination of the precision of calibrating invar wires using the interferential and optical-mechanical comparators of the Institute. As a result of protracted continuous observations, the cause of the annual comparator-length variations of about 350 μ since 1940 was traced to the boilers of the central heating installed on the other side of the wall at a distance of a few meters from the comparator. By a simple, briefly outlined, technique, the mean friction value for the comparator blocks was found to be 15 g. Examination revealed that improper

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ACCESSION NR: AP5006668			하는 것 하다 한 학생들이 보고 있는 것이다.	/ /
illumination of the compa	rator scales and mi	cronotches was	another source of	ones
error. A new 111 mination		ithesting procis	ion, so that the	con-
of the comparators great vergence in length of st	ly increased the ca.	nas since become	completely satis	fac-
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ASSOCIATION: Moskovskiy 11 (Moscow Institute of	Survey, Aerial Phot	ography and Cart	ography Engineers)
	entition and resident and the effective rational and the fertile section in the contract of th	enol; 00	BUB CODE: ES	i militar
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가 있는 후 사람이었습니다. 하지만 화장된 발판이 나는 사람들이 없는 것이다.	经基本的经济 医多种性皮肤 医皮肤性皮肤 医二甲基苯酚 医克勒氏管	AAA		1
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LARIN, P.I., starshiy prepodevatel

Stability of the lengths of working geodetic standards for the comparator of the Moscow Institute for Engineers in Geodesy, Aerial Photography, and Cartography. Trudy MIGAIK no.50: 57-64 '62. (MIRA 16:7)

l. Kafedra vysshey geodezii Moskovskogo instituta inzhenerov geodezii, aerofotos*yemki i kartografii.
(Chains—Testing)

KONDRASHKOV, A.V., dotsent, kand. tekhn. nauk; LARIN, P.I., starshiy prepodavatel'

MIIGAIk comparator for standardizing measuring tapes of 0.1. to 24 meters in length. Izv. vys. ucheb. zav.; geod. i aerof. no.3:131-137 '63. (MIRA 17:1)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii.

38292

S/190/62/004/006/019/026 B110/B138

15.8620

AUTHORS: Usmanov, Kh. U., Larin, P. P., Tashpulatov, Yu. T.,

Musayev, U. N., Tillayev, R. S.

TITLE:

The IR spectra of graft copolymers of polystyrene and perchlorovinyl with acrylonitrile, obtained under $\gamma\text{-radiation}$

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 907-912

TEXT: The IR spectra were investigated for the graft copolymers of polystyrene with acrylonitrile (PSA) and perchlorovinyl with acrylonitrile (PCA), obtained by x-radiation. The graft copolymers were prepared according to the authors (Mezhdunarodnyy simpozium po makromolekulyarnoy khimii (International Symposium on Macromolecular Chemistry), Moskva, iun' 1960 g. sektsiya III, p. 270). The radiation dose was 1 - 10,000,000 roentgen. For spectral analysis KBr compacts were produced. A doublebeam IR spectrophotometer type NKC-14 (IKS-14) was used with NaCl prism for 2.5 - 15 \mu. Homopolymerization of acrylonitrile and graft copolymerization with polystyrene takes place during graft copolymerization. Since the spectrum of the graft copolymer differed from that of the initial

Card 1/3

5/190/62/004/006/019/026

The IR spectra of graft...

polymer, grafting of polyacrylonitrile and polystyrene presumably occurred during irradiation. The graft copolymer of polystyrene with acrylonitrile corresponded to oscillations at: 2.86 - 2.94 to hydrogen bond (N.....H); 3.28 and 3.32 μ = asymmetric oscillations of the CH₂ group; 3.43 and 3.52 μ = valency oscillations of the CH2 group; 4.45 \(\mu = C \) valency oscillations; 5.13, 5.31 and 5.53µ = harmonics of the monosubstituted benzene ring; 5.98μ = C=O valency oscillations; 6.24μ = oscillations of the C=C bond of the benzene ring; 6.69μ = cacillation of the benzene ring; 6.87, 7.09, 7.20 μ = deformation oscillerions of the CH₂ group; 7.94 μ = C-H deformation oscillations; 8.44, 8.66 μ = oscillations of the monosubstituted benzene ring; 9.13, 9.34 μ = C-C ske_eton oscillations; 10.99, 11.80 μ = CH oscillations of the monosubstituted benzene; 3.16, 14.28µ = non-flat deformation oscillations of the CH group of the monosubstituted benzene ring. insolubility of the copolyme: (C = 73.77%, H = 6.81%, N = 13.47%, 0 = 5.95%) is explained by: (1) grafting, (2) appearance of new bonds (2.86 - 2.94) N.... H hydrog n bond). For the graft copolymer of perchlorovinyl and acrylonitril there corresponded the bands: 2.91 pto NH valency oscillations in the li' group; 3.39μ = C-H deformation oscillations; Card 2/3

The IR spectra of graft...

5/190/62/004/006/019/026 B110/B138

5.81 \mu = C=0 valency oscillations; 7.03 \mu = CH, deformation oscillations; 7.37, 9.83 μ = CEN valency oscillations; 10.39 μ = C-C skeleton oscillations; 13.17 μ = C-Cl valency oscillations; 14.80 μ = C-H deformation oscillations. The appearance of the band at 2.91, 5.81, 7.37 and 9.83, presumably proves saponification of the CEN to the O=C-NH2 group owing to HCl separation and air humidity. For the graft copolymer of perchlorovinyl with acrylonitrile the following oscillations appear: $3.40\mu = CH_2$ valency oscillations, 4.42μ = C ≥N valency oscillations; 5.99µ = C=O valency oscillations; 6.67, 6.87µ ↓ = CH₂ deformation oscillations; 7.19, 7.36, 7.94 and 8.36 μ = C-H deformation oscillations; 9.13, 9.34 μ = -C-C-C- skeleton oscillations; 13.10 μ = C-Cl valency oscillations. There are 2 figures.

ASSOCIATION: Institut khimii polimerov AN UzSSR (Institute of the Chemistry of Polymers AS UzSSR). Tashkentskiy gosudarstvennyy universitet im. V. I. Lenina (Tashkent State University imeni V. I. Lenin)

SUBMITTED:

April 14, 1961

Card 3/3

L 13672=63 EMP(3)/EMT(n)/H	is po−i .mu
ACCESSION PR: AP3003525	s/0291/63/000/003/0057/0063 5 7
AUTHORS: Inoyatov, N. Sh.; L	erin, P. P.; Aykhodzhayev, B. I.
TITLE: Reaction between poly	inyl alcohol and sulfur sesquichloride
SOURCE: Uzbekskiy knimichesk	y zhurnal, no. 3, 1963, 57-63
TOPIC TAGS: polyvinyl alcoholyinyl, chlorine, hydroxyl, in	l, sulfur sesquichloride, sulfur, poly- rared analysis, absorption coefficient
at 110°C. Films were prepared hol having a molecular weight acetyl groups and 36.4% hyd glass cylinder, 6 cm high and ethylene film bottom. A 2% acetylene film bottom. A 2% acetylenes transparent film of polyethylene. Its thickness transparent the amount of alcohol so	and sulfur sesquichloride were reacted from technical grade polyvinyl alco- of 15,000-18,000 and containing 2.2% kyl groups. The reaction vessel was a 10 cm i.d. and equipped with a poly- queous solution of polyvinyl alcohol After evaporation of the water, a alcohol formed on the surface of the varied from 0.3 to 0.4 mm depending lution. Polyvinyl alcohol films were lfur sesquichloride freshly distilled

L 13672-63 ACCESSION NR: AP3003525 over sulfur and dissolved in anhydrous toluene, was used in the reaction. Concentrations employed were: 1.0, 5.0, 10.0, 20.0, 50.0, 75.0, and 100 vol. %. Polyvinyl alcohol and sulfur sesquichloride were reacted by refluxing the films with a sulfur sesquichloride solution. Amount of sulfur sesquichloride used up depended upon the concentration of its solution and the reaction time. In all experiments, 1 gm of the polymer was reacted with 100 ml of sulfur sesquichloride solution for 10-120 minutes at a constant temperature (110°C). Prior to the reaction, polymer films were subjected to additional drying at 105°C for 1 hour. After completion of the reaction, films were removed from the reaction flask and thoroughly washed with benzene to remove any adsorbed sulfur sesquichloride and free sulfur. The films were then dried for 6 hours in air and weighed. The amount of free sulfur in the samples did not exceed 0.4% of the original weight of polyvinyl alcohol. Films, heated in anhydrous toluene at 110° C for 10-120 minutes, served as controls. Samples of both the original and the reacted polyvinyl alcohol were analyzed for combined sulfur (chemical method), chlorine (Schift method), hydroxyl groups (Verley method) and for unsaturation (Knop me-

Card 2/3

L 13672-63 ACCESSION NR: AP3003525 thod). These samples were also subjected to infrared analysis with a double-beam IKS-14 spectrometer with a sodium chloride prism for 1800-650 cm⁻¹ range and a lithium fluoride prism for 3700-2700 cm⁻¹ range, Recause of the variation in film thickness, spectral data are presented in terms of absorption coefficients calculated from the Bouger-Tambert law. The results indicate that a polyvinyl alcohol and sulfur sesquichloride reaction leads to the replacement of some of the hydroxyl groups by atoms of sulfur or chlorine which. causes an increase in the molecular weight of the polymer. An increase in the amount of combined sulfur leads to a gradual increase in amorphism of polyvinyl alcohol. An increase in the concentration of sulfur sesquichloride and in the reaction time between the alcohol and the sesquichloride leads to a decrease in the number of hydroxyl groups and the appearance of O-S-O; O-C-C1; O-S-C1; C-S-C1; and C-Cl linkages. Orig. art. has: 2 figures, 7 formulas, and 2 tables. ASSOCIATION: Institut khimii polimerov AN UZSSR (Institute of Polymer Chemistry. AN "ZSSR) SHEMITTED: 01Sep62 DATE ACQ: 23Jul63 ENCL: 00 SUB CODE: CH NO REF SOV: 011 OTHER: 000 Card 3/3

ACCESSION NR: AP4040479

s/0190/64/006/006/0997/1000

AUTHOR: Larin, P. P.; Musayev, U. N.; Tashpulatov, Yu. T.; Tillayev, R. S.;

Usmunov, Kh. U.

TITLE: IR spectra of copolymers of acrylonitrile and 2-methylfuran

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 6, 1964, 997-1000

TOPIC TAGS: copolymer, acrylonitrile, furan. 2-methyl, copolymer Ansil, radiation induced copolymerization, bulk copolymerization, solution copolymerization

ABSTRACT: The IR spectra of acrylonitrile--2-methylfuran (Ansil') copolymers have been studied. The copolymers were prepared by irradiating mixtures of the pure monomers both in bulk and in various solvents from a Co^{OO} source. The study has confirmed the formation of copolymers. From the results it was assumed that in radiation-induced copolymerization of acrylonitrile and 2-methylfuran in solution, solvent molecules add to the ends of the copolymer molecules and accelerate termination. This assumption was confirmed by the fact that "Ansil'" copolymers prepared in solution have a lower molecular weight than those bulk copolymerized.

Card 1/2

ACCESSION NR: AP4040479

The addition of the solvent is probably accompanied by a partial cyclization of polyacrylonitrile segments to form conjugated CaN bonds. Orig. art. has 2 figures.

ASSOCIATION: Institut khimii polimerov AN UzSSR(Institute of Folymer Chemistry, AN UzSSR); Tashkentskiy gosudarstvenny universitet im. V. I. Lenina (Tashkent State University)

SUBMITTED: 25May63

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 003

OTHER: OOL

Card 2/2

AZIZCV, M.A.; KATS, A.L.; LARIN, P.P.; TASHPULATOV, Yu.T.; USMANOV, Kh.U.

Infrared absorption spectra of the complex compounds of copper of monopyridinecarboxylic acids and their derivatives. Uzb.khfm. zhur. 8 no.5147-53 '64. (MIRA 18:5)

1. Tashkentskiy farmatsevticheskiy institut i Nauchno-issledovatel-skiy institut khimii i tekhnologii khlopkovoy tsellyulozy Gosudar-stvennogo komiteta khimicheskoy promyshlennosti pri Gosplane SSSR.

MELIKADZE, I.G.; LARIN, R.R.; BEZHANOV, F. Kh.; Frinimali uchastive:
KHUROSHVILI, G., inzh.; TSAGARKII, T., inzh.; ZAMTARADZE, E., inzh.;
BOCHORISHVILI, G., tekimik; MAYSURADZE, L., leborevt; SHUBLADZE,G.,
leborant; PANKRATOVA, Ye., kammerez.

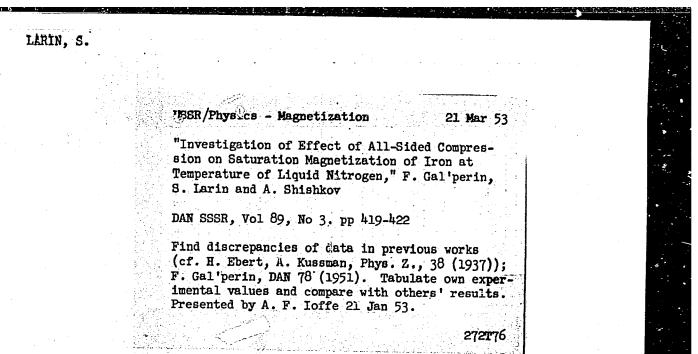
Investigation of teschenits disintegration by the thermal method.
Soob. AN Gruz. SSR 34 no.32633-64.0 Je '64 (NIRA 18:1)

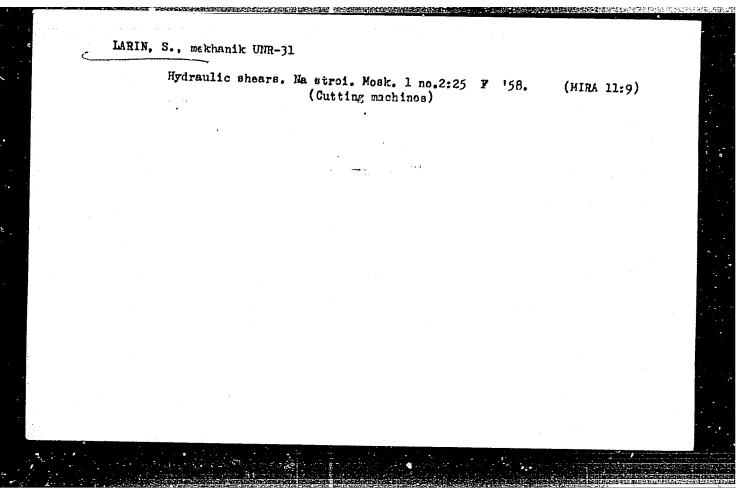
1. Institut gornogo dela imeni G.A. TSulukidza AN Gruzinskoy SSR.
Submitted November 25, 1963.

OSTROVSKIY, Yu.M.; LUKASHIK, N.K.; RAZUMOVICH, A.N.; BALAKLEYEVSKIY, A.I.;
DOSTA, G.A.; TREBUKHINA, R.V.; LARIN, R.S.; KARPUT', S.N.;
KOMAROVA, B.P.; NEPOCHELOVICH, N.S.; DVORYANINOVICH, L.N.;
MOYSEYENOK, A.G.; MANDRIK, K.A.; GALITSKIY, E.A.; MA TYSIK, M.S.;
PODOBED, V.G.; MAKARINA-KIBAK, L.Ya.

Differentiation of specific and nonspecific metabolic shifts in an acute avitaminosis B₁ caused by oxythiamine. Vop.pit. 24 no.4:41-48 Jl-Ag *65. (MIRA 18:12)

1. Kafedra biokhimii (zav. - dotsent Yu.M.Ostrovskiy) meditsinskogo instituta, Grodno. Submitted July 23, 1964.





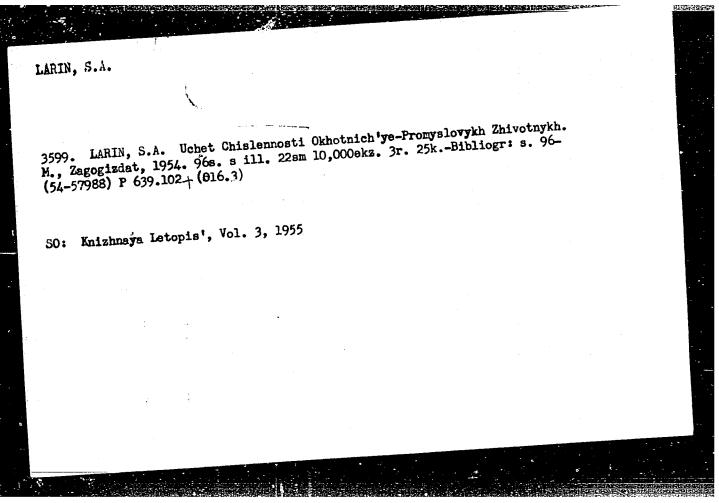
LARIN, S. A.

"Acclimatization of the Teleutka Squirrel in the Crimea," Sub. 24 Feb 47, Moscow
Fur and Pelt Inst.

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum. No. 457, 18 Apr 55

** C And Biological Sci.



5/196/62/000/009/014/018 E114/E184

AUTHOR:

Larin, S.G.

TITLE:

Use of rubber seals for the gates of the Volzhskaya gidroelektrostantsiya imeni V.I. Lenina (Volga Hydroelectric Station imeni V.I. Lenin)

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.9, 1962, 11, abstract 9 D73. (Energ. str-vo. 22,

M.-L., 1961, 66-69)

The use of bulbous shaped rubber for sealing the gates gave satisfactory results at pressures up to 44.5 m head, TEXT: but in certain cases such seals proved unsatisfactory, wader actual working conditions. The horizontal attachment of bulbous shaped rubber with a flat rubber lining and a metallic cover plate proved the most successful. In the case of a horizontal seal between the sections of the gates, a sufficiently reliable seal can be made by welding an additional lengthened strip on the pressure side and by fixing the rubber with the cover plate. The overlap of the rubber for a detachable seal between the sections of the gates at a length of 10-12 m should be 10-12 mm. Card 1/2

Use of rubber seals for the gates... S/196/62/000/009/014/018

The rubber seals of the gates in vital positions in various installations should be checked by calculation as load bearing parts.

[Abstractor's note: Complete translation.]

Card 2/2

Use of rubber gate seals on the Volga Hydroelectric Power Station (Lenin). Energ. stroi. no.22:66-69 '61. (MIRA 15:7) 1. Stroitel'noye ulravleniye Kuybyshevskoy gidroelektrostantsii. (Volga Hydroelectric Power Station (Lenin)—Gates, Hydraulic)

ALEKSEYEV, G.P.; ANDON'YEV, V.S.; ARNGOL'D, A.V.; BASKIN, S.M.; BASHMAKOV, N.A.; BEREZIN, V.D.; BERMAN, V.A.; BIYANOV, T.F.; GORBACHEV, V.N.; GRECHKO, I.A.; GRINBUKH, G.S.; GROMOV, M.F.; GUSEV, A.I.; DEMENT'YEV, N.S.; DMITRIYEV, V.P.; DUL'KIN, V.Ya.; ZVANSKIY, M.I.; ZENKEVICH, D.K.; IVANOV, B.V.; INYAKIN, A.Ya.; ISAYENKO, P.I.; KIPRIYANOV, I.A.; KITASHOV, I.S.; KOZHEVNIKOV, N.N.; KORMYAGIN, B.V.; KROKHIN, S.A.; KUDOYAROV, L.I.; KUDRYAVTSEV, G.N.; LARIN, S.G.; LEBEDEV, V.P.; LEVCHENKOV, P.N.; LEMZIKOV, A.K.; LIPGART, B.K.; LOPAREV, A.T.; MALYGIN, G.F.; MILOVIDOVA, S.A.; MIRONOV, P.I.; MIKHAYLOV, B.V., kand. tekhn. nauk; MUSTAFIN, Kh.Sh., kand. tekhn. nauk; NAZIMOV, A.D.; NEFEDOV, D.Ye.; NIKIFOROV, I.V.; NIKULIN, I.A.; OKOROCHKOV, V.P.; PAVIENKO, I.M.; PODROBINNÍK, G.M.; POLYAKOV, G.Ya.; PUTILIN, V.S.; RUDNIK, A.G.; RUMYANTSEV, Yu.S.; SAZONOV, N.N.; SAZONOV, N.F.; SAULIDI, I.P.; SDOENIKOV, D.V.; SEMENOV, N.A.; SKRIPCHINSKIY, I.I.; SOKOLOV, N.F.; STEPANOV, P.P.; TARAKANOV, V.S.; TREGUBOV, A.I.; TRIGER, N.L.; TROITSKIY, A.D.; FOKIN, F.F.; TSAREV, B.F.; TSETSULIN, N.A.; CHUBOV, V.Ye., kand. tekhn. nauk; ENGEL', F.F.; YUROVSKIY, N.A.; CHUBOV, V.Ye., kand. tekhn. Ya.G.; YAKUBOVSKIY, B.Ya., prof.; YASTREBOV, M.P.; KAMZIN, I.V., prof., glav. red.; MALYSHEV, N.A., zam. glav. red.; MEL'NIKOV, A.M., zam. glav. red.; RAZIN, N.V., zam. glav. red. i red. toma; VARPAKHOVICH, A.F., red.; PETROV, G.D., red.; SARKISOV, M.A., prof.; red.; SARUKHANOV, G.L., red.; SEVAST YANOV, V.I., red.; SMIRNOV, K.I., red.; GOTMAN, T.P., red.; BUL'DYAYEV, N.A., tekhn. red. (Continued on next card)

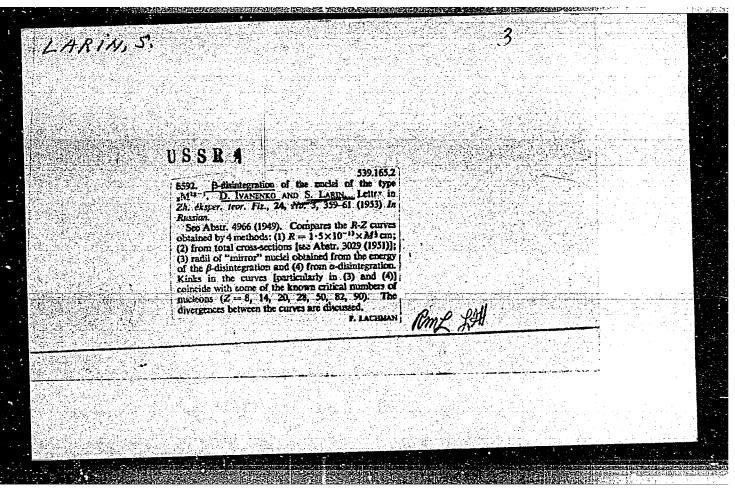
ALEKSEYEV, G.P.——(continued). Card 2.

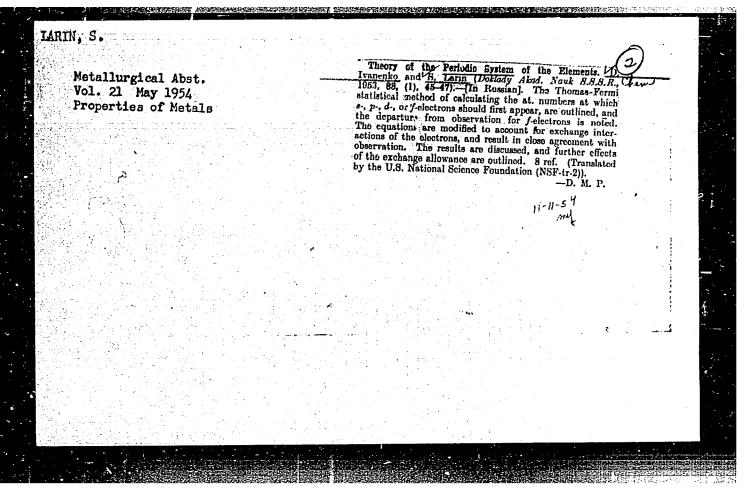
[Volga Hydroelectric Power Station; a technical report on the design and construction of the Volga Hydroelectric Power Station (Lenin), 1950-1958] Volzhskaia gidroelektrostantsiia; tekhnicheskii otchet o proektirovanii i stroitel'stve Volzhskoi GES imeni V.I.Lenina, 1950-1958 gg. V dvukh tomakh. Moskva, Gosenergoizdat. Vol.2.[Organization and execution of constrution and assembly work] Organizatsiia i proizvodstvo stroitel'nomontazhnykh rabet. Red. toma: N.V.Razin, A.V.Arngol'd, N.L. Triger. 1962. 591 p. (MIRA 16:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Razin). (Volga Hydroelectric Power Station (Lenin)--Design and construction)

- 1. IVANENKO, D., KURDGELAYDZE, D., LARIN, S.
- 2. USSR (600)
- 4. Mesotrons
- 7. Comments on nonlinear meson dynamics. Dokl AN SSSR No 2 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.





| LARIN, S. | Wathematical Reviews | Vol. 14 No. 8 | Sept. 1953 | Nathematical Physics. | Sept. 1953 | In the equation φ, the density ρ is replaced by its Thomas Fermi approximation and the behaviour of the solution in the extreme relativistic and non-relativistic cases is briefly discussed. | A. J. Coleman (Toronto, Ont.).

larin, s. ussr/Physics	
Card 1/1	
Authors	: Iarin, S.
Title	: Anomalous diffusion of beta-rays and the hypothesis of conglomeration of elementary particles.
Periodical	: Usp. Fiz. Nauk, 52, Ed. 2, 329 - 333, 1954
Abstract	Report presents various ideas on the anomaly of beta particles and the conglomeration of elementary particles. The anomalies of beta-particles were first discovered in 1934 by Skobel'tsin and Stepanova when arriving at a conclusion about the generation of positrons by beta-particles with size 104 times exceeding the theoretical value. The conglomeration hypothesis, which confirms that the latter takes place with a certain probability, particularly in conditions of multiple generation, is a development of the known De-Broglie theory, in which the equation of motion of certain particles is obtained at result of special "consolidation" of equations of motion of two spin particles. Thirteen inferences; 8 USSR since 1938; 5 English 1950.
Institution	
Submitted	

Larin, S. I.

USSR/Nuclear Physics - Transuranic

FD-1831

Card 1/1

Pub 146-16/25

Author

Larin, S. I., and Kolesnikov, N. N.

Title

Neutron sub-shell in the region of the transuranic elements

Periodical: Zhur. eksp. i teor. fiz. 28, 243, February 1955

Abstract

: The authors remark that at the present time the existence of neutron or proton shells or sub-shells have not been established in the region of neutron numbers N greater than 126 and atomic numbers greater than 82. Only individual indications as to the possible existence of weak subshells have been made in the case of N=148 (N. Kolesnikov, DAN SSSR, 97, 233, 1954) and Z=92 (V. A. Kravtsov, DAN SSSR, 78, 43, 1951). They state that new data on the properties of the isotopes of the transuranic elements, including 99 and 100, permit one to discuss again this problem. Thirteen references.

Institution: Moscow State University

Submitted: September 30, 1954

CIA-RDP86-00513R000928630013-9" APPROVED FOR RELEASE: 08/31/2001

USSR/Nuclear Physics - Spontaneous fission

FD-1832

《 1987年 1987年 1988年 1988年 1988年 1988年 1988年 1988年

Card 1/1

Larin, S.

Pub 146-17/25

Author

: Kolesnikov, N. N., and Larin, S. I.

Title

: Probability of spontaneous fission and beta-stability

Periodical: Zhur. eksp. i tecr. fiz. 28, 244-245, February 1955

Abstract

: The probability of nuclear fission depends upon the effective height of the potential barrier (i.e. upon the critical energy of fission), and also upon its width. Here the authors wish to call attention to the fact that the maximum stability relative spontaneous fission coincides sufficiently accurately with the maximum of beta-stability in isotopes of one and the same element, as shown e.g. from a consideration of the graph of the dependence of log tau (logarithm of probability of spontaneous fission) upon \mathbb{Z}^2/\mathbb{A} .

They thank Prof. D. D. Ivanenko. Eight references, only 1 USSR (N. N. Kolcs-

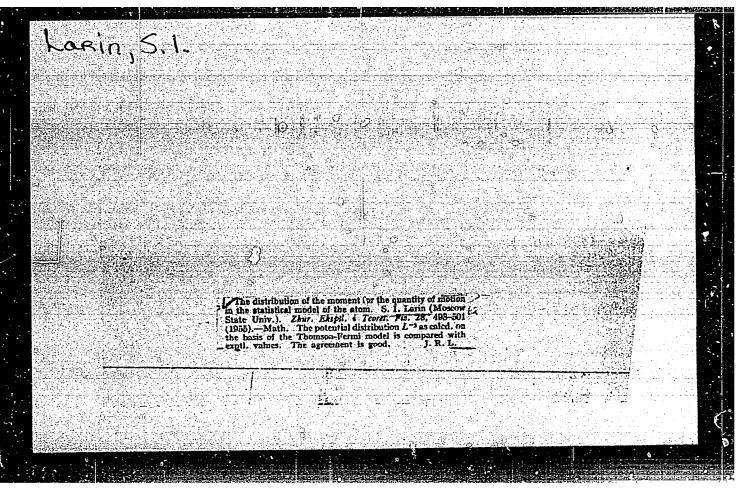
nikov, DAN SSSR, 97, 233, 1954).

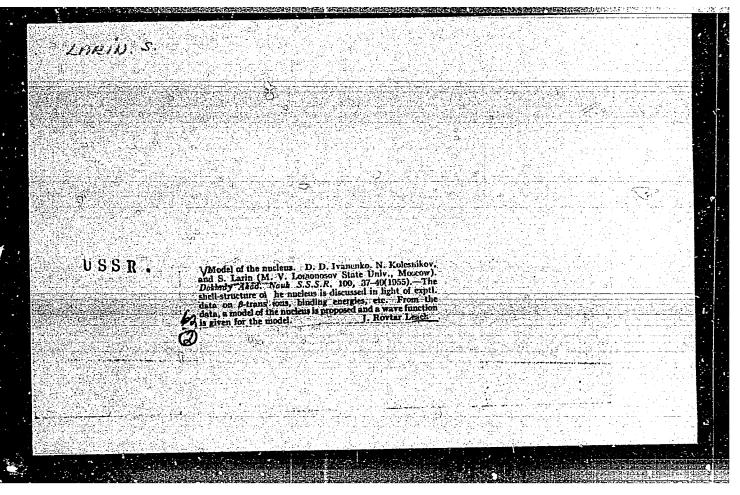
Institution: Moscow State University

Submitted: September 30, 1954

CIA-RDP86-00513R000928630013-9" APPROVED FOR RELEASE: 08/31/2001

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000928630013-9





Name: LARIN, S. I.

Dissertation: Distribution of the charge in nuclei and scattering of high-energy electrons

Degree: Cand Phys-Math Sci

Activation: Moscow State U imeni M. V. Lomonosov

Jublication Defense Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 51, 1956

USSR/Nuclear Physics - Structure and Properties of Nuclei

C-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 33976

Author: Larin, S. I.

Institution : Moscow State University, Moscow, USSR

Title: Distribution of Angular Momentum and Spatial Distribution of Nucleons in Nuclei

Original

Periodical: Zh. eksperim. i teor. fiziki, 1956, 30, No 3, 587-589

Abstract: From known values of the mean square of the orbital moment of momentum \mathbb{L}^2 it is possible, on the basis of the Thomas-Fermi statistical model, to draw certain conclusions concerning the character of the distribution of the nucleons in the nuclei. To obtain \mathbb{L}^2 , a refined scheme for filling the proton (neutron) levels in the nuclei was used. Within the framework of the statistical theory, relationships were established between the

Card 1/2

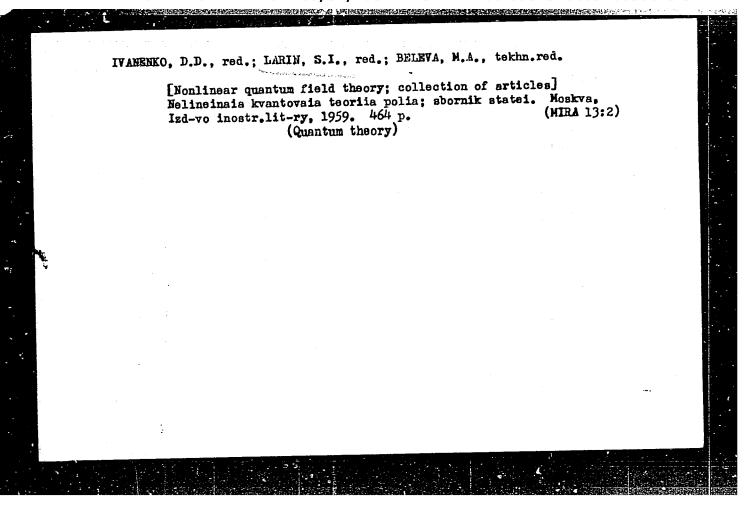
USSR/Nuclear Physics - Structure and Properties of Nuclei

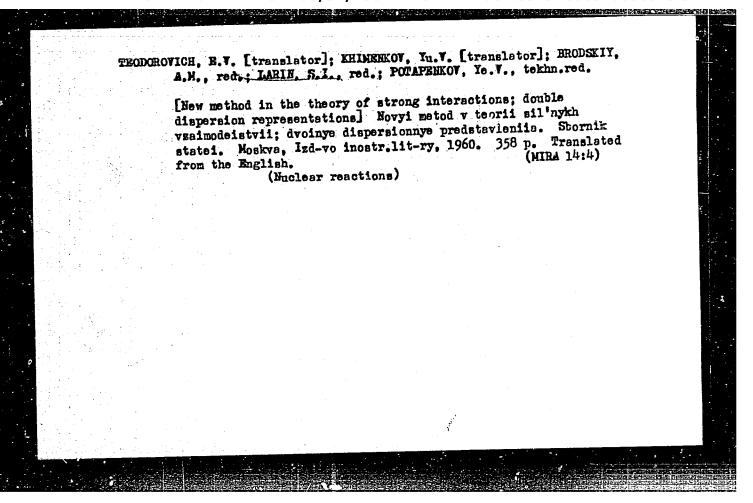
C-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 33976

parameters of the 2 types of proton (neutron) densities: (a) constant inside and exponentially diminishing on the boundary, (b) constant inside and diminishing at the boundary as the exponential divided by the square of the distance from the center of the nucleus. Depending on the number of protons (neutrons), the relative thickness of the surface layer (i.e., the ratio of the thickness of the surface layer to the radius of the constant portion) experiences sharp fluctuations, reaching minimum values at the magic nuclei. The curve is compared with a plot of the eccentricities of the nuclei resulting from the quadrupole moments. The Coulomb energies of the nuclei were used to determine the numerical values of the parameters. It is shown that the correct squares of the radii of the nuclei are obtained as a result. The values of the "effective" radii experience periodic fluctuations, their relative value diminishing at the magic nuclei.

Card 2/2



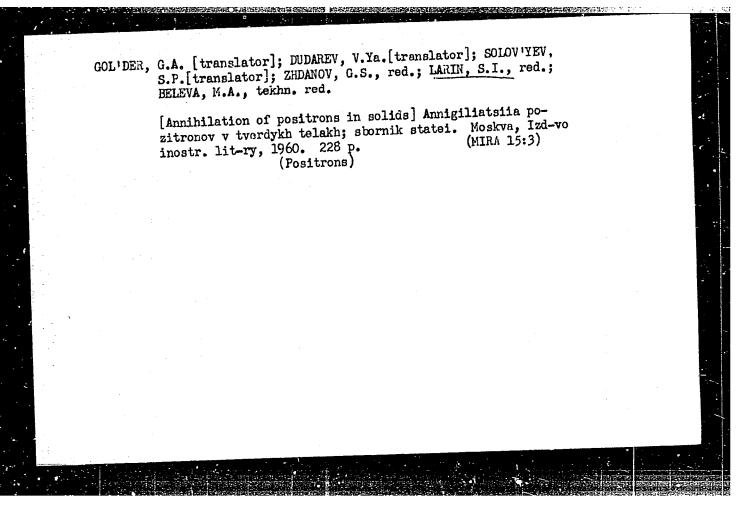


EKLOV, D.V. [translator]; VAVILOV, B.T. [translator]; IVANENKO, D., red.;

LARIN, S.L., red.; DOTSENKO, V.A., tekhn. red.

[Recent problems in gravitation] Noveishie problemy gravitatsii; sbornik statei. Moskva, Izd-vo inostr. lit-ry, 1961. 488 p. (MIRA 14:7)

(Gravitation)

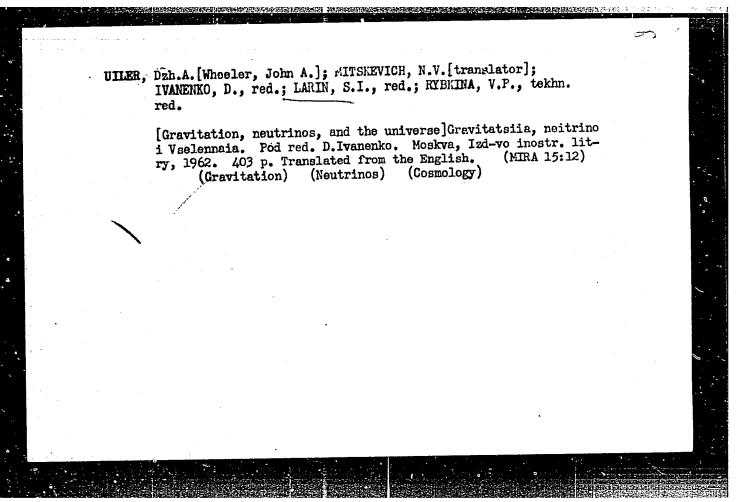


SOKOLOV, Arseniy Aleksandrovich, prof.; LOSKUTOV, Yuriy Mikhaylovich; TEKNOV, Igor' Mikhaylovich; LARIN, S.I., red.; SMIRHOVA, M.I., tekhn. red.

[Quantum mechanics] Kvantovaia mekhanika. Pod obshchei red. A.A. Sokolova. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv.

(MIRA 15:3)

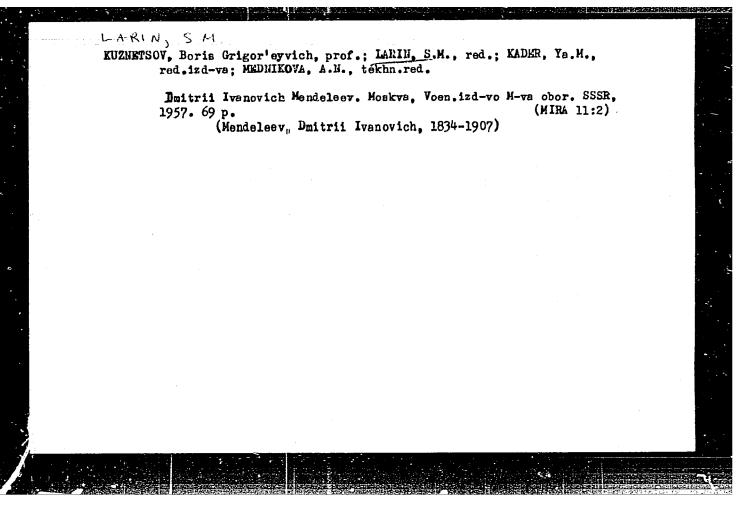
(Quantum theory)

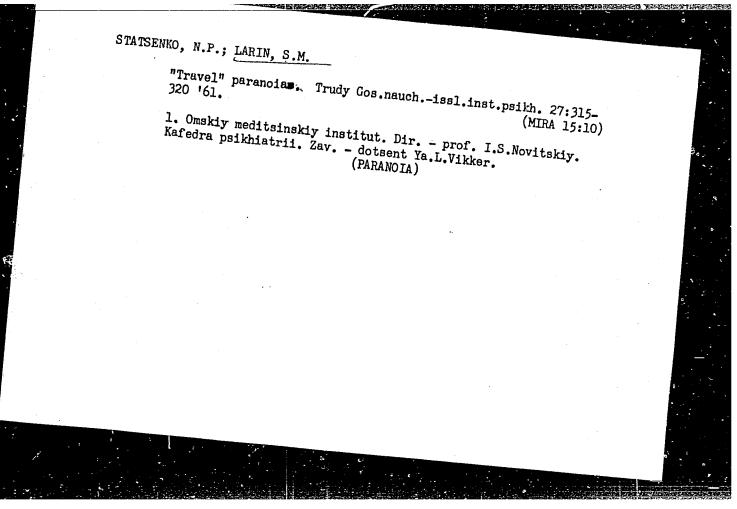


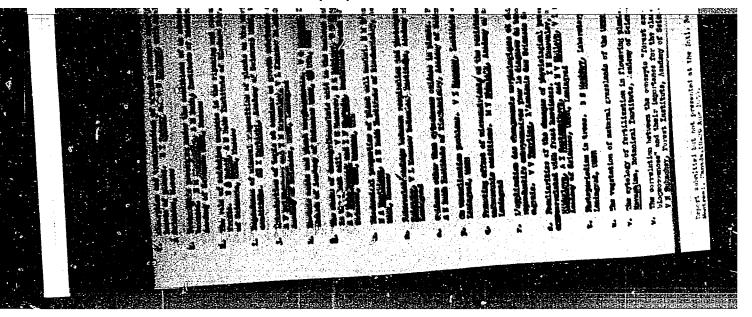
BELEN'KIY, S.Z. [doceased]; VUL, B.M.; ZHARKOV, G.F.; ZHDANOV, G.B.; SILIN, V.P.; FAYNEERG, V.Ya.; FEYNEERG, Ye.L.; LARIN, S.I., red.; UL'YANOVA, O.G., tekhn. red.

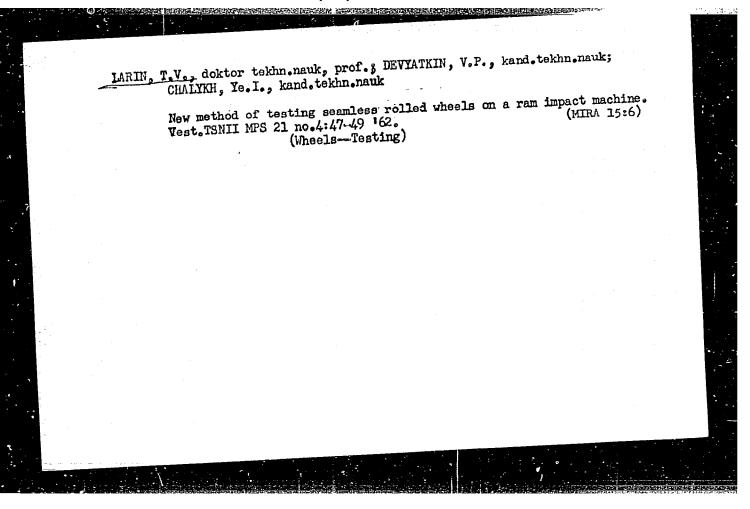
[From classical to quantum physics; fundamental representations in the theory of the constitution of matter]Ot klassicheskoi fiziki k kvantovoi; osnovnye predstavleniia ucheniia ostroenii materii. Moskva, Izd-vo Akad. nauk SSSR, 1962. 69 p. (MIRA 16:3)

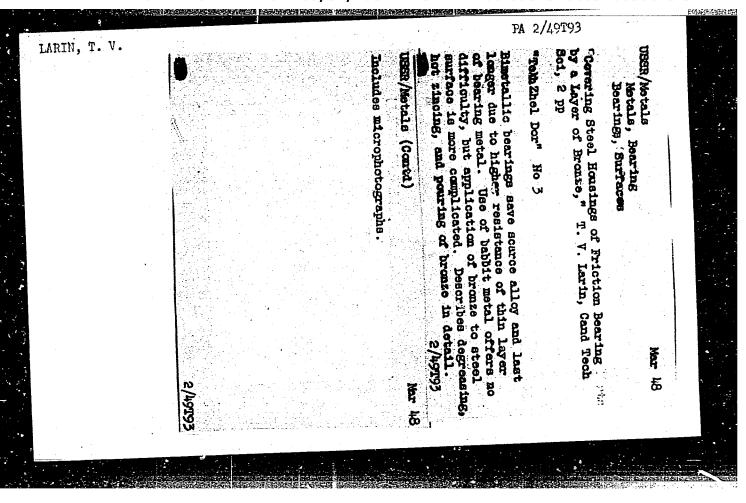
(Physics) (Quantum theory) (Matter-Constitution)

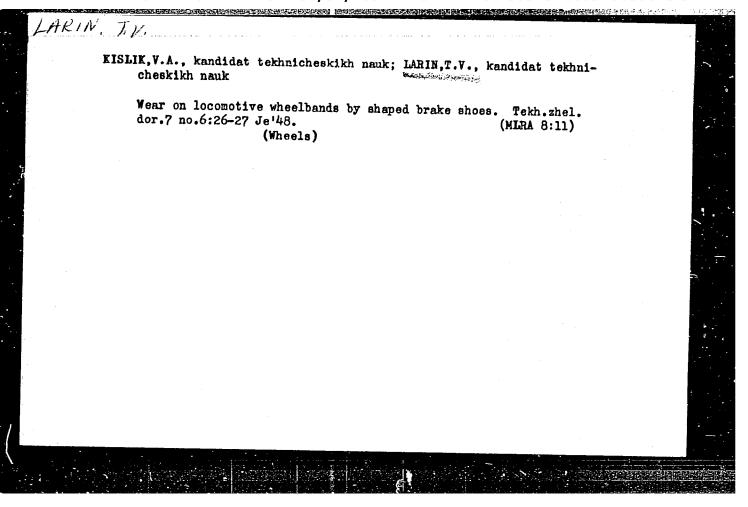












IARIN, T.V.; DEVYATKIE, V.P.; MALOZENOV, N.A.; GOL'DENTUL, B.A. redaktor, VERIFA, G.P. tekhnicheskiy redaktor.

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[Increasing the wear resistance of locomotive parts] Povyshenie iznosostoikosti parovoznykh detalei. Moskva, Gos. transp. xheldor. izd-vo, 1955. 191 p. (Moscow. Vsesoiuznyi nauchno-issledo-vatel'skii institut zheleznodorozhnogo transporta. Trudy, no.103) (Locomotives) (Mechanical wear)

LARIN. T.V.; DEVYATKIN, V.P.; KRIVOSHEYEV, V.N.; NAUMOV, I.V.;
CHALYKH, Ye.I.; SELIKHOVA, T.A., inzhener, redaktor;
KHITROV, P.A., tekhnicheskiy redaktor.

[Seamless rolled wheels for railroad cars] TSel'nokatannye zheleznodorozhnye kolesa, Moskva, Gos, trans. zhel-dor.1zd-vo.
1956. 187 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.124).

(Wheels)

SOV/137-57-1-1384

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 183 (USSR)

Larin, T. V., Devyatkin, V. P. AUTHORS:

On the Mechanism of the Wear of Railroad-car Wheels (O mekhaniz-TITLE:

me iznosa zheleznodorozhnykh koles)

PERIODICAL: Treniye i iznos v mashinakh. Nr 11. Moscow, AN SSSR, 1956, pp

238-263

ABSTRACT: The authors investigated the structural changes in the surface

layer of working railroad-car wheel tires (T) and the effect of the C content (0.45, 0.55, 0.60, 0.68, and 0.86) on the structural changes in the surface layer of the specimens when they were subjected to friction tests. The steel of a worn T containing 0.73% C and 0.76% Mn has a σ_b of 90kg/mm². Etching with 4% HNO₃ of samples cut out of various zones of the surface layers of worn T showed white, etch-resistant layers composed of structurefree martensite. The formation of such white layers causes a rapid wear of T. The mechanism of T wear consists of the separation from the rolling surface of particles of plastically deformed metal and of the

white layer, which latter appeared as a result of structural Card 1/2

CIA-RDP86-00513R000928630013-9" **APPROVED FOR RELEASE: 08/31/2001**

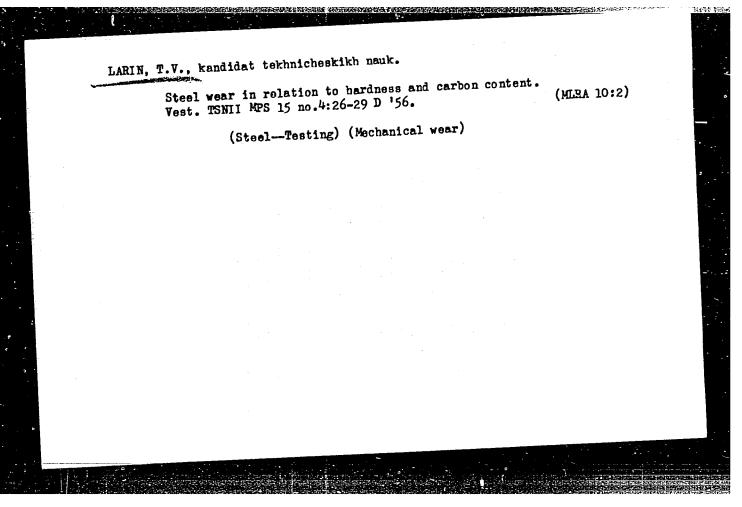
SOV/137-57-1-1384

On the Mechanism of the Wear of Railroad-car Wheels

transformation caused by friction heat at points of skidding contact. The rate of development of these processes is explained by insufficient resistance of the metal to plastic deformation, hardenability of the T metal, the occurrence of skidding, the skidding velocity, and the magnitude of the specific pressures over the contact surface. In order to increase wear resistance of T it is necessary to produce a stronger layer, which would resist breaking down for the longest possible time, for which purpose the authors recommend use of steels with the lowest possible C content (< 0.6%) and with alloying additives which increase the strength but do not increase hardenability. The σ_b should be 95 kg/mm². The study of structural transformations in the surface layer of laboratory specimens of steels with various C content, friction-tested on a special apparatus, showed that the nature and properties of T structure in the region of hardened layer are the same as on the surface of the specimens.

A. M.

Card 2/2



LABIE Strong West Hyperich; ASTASHKEVICH, Boris Mikhaylovich; KUPTSOV, I.1., inzhener, redaktor; KHITHOV, P.A., tekhnicheskiy redaktor.

[Increasing the wear resistance of bushings and pistor rings for locomotive diesel engines.] Povyshenie iznosostoikosti vtulok i porshchnevykh kolets teplovoznykh diselei. Moskva, Gos.transp. shel-dor.isd-vo, 1957. 122 p. (Moscow, Veseciuznyi nauchnoissledovatel'skii institut sheleznodorozhnogo transporta. Trudy, no. 140).

(Piston rings) (Diesel engines)

SOV/137-58-7-15764

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 266 (USSR)

AUTHOR: Larin, T. V.

TITLE: Metal for Locomotive Tires (Metall dlya lokomotivnykh bandazhey)

PERIODICAL: Vestn. Vses. n.-i. in-ta zh.-d. transp., 1957, Nr 5, pp 42-46

ABSTRACT: An investigation of the effect of the chemical composition on the wear of tires during their contact with rails and brake-shoes was carried out. On a special mounting burns of steel plates containing 0.35-0.84% C were reproduced after those observed on the tires. It was determined that the martensite layer forming due to this was destroyed less frequently when C content was up to 0.6%. Laboratory wear tests showed that with an increase in hardness the wear resistance of steel with both a low and a high C content increases while among steels of equal hardness those with a lower C content have a greater wear resistance. Comparative testing under working conditions of experimental tires of Cr-Mn-steel with high and low C contents and also of ordinary carbon-steel tires showed a negligible difference in the wear of

either type. The wear of high-carbon and ordinary tires proved Card 1/2 the same, while that of low carbon was less. A considerable